PATENT COOPERATION TREA

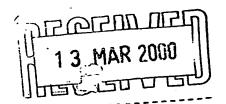
From the INTERNATIONAL BUREAU

PCI	10.
NOTIFICATION OF ELECTION (PCT Rule 61.2) Date of mailing (day/month/year)	Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE
04 September 2000 (04.09.00)	in its capacity as elected Office
International application No. PCT/GB00/00235	Applicant's or agent's file reference HCM/C84.01/Q
International filing date (day/month/year) 28 January 2000 (28.01.00)	Priority date (day/month/year) 02 February 1999 (02.02.99)
Applicant NESS, Jeremy, Nicholas et al	
The designated Office is hereby notified of its election made in the demand filed with the International Preliminal O9 August 20 in a notice effecting later election filed with the International	y Examining Authority on: 00 (09.08.00)
2. The election X was	
was not made before the expiration of 19 months from the priority Rule 32.2(b).	date or, where Rule 32 applies, within the time limit under
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer S. Mafla

Telephone No.: (41-22) 338.83.38

Form PCT/IB/331 (July 1992)

Facsimile No.: (41-22) 740.14.35





From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

KEITH W NASH & CO. 90-92 Regent Street Cambridge CB2 1DP ROYAUME-UNI

Date of mailing (day/moัที่th/year) 02 March 2000 (02.03.00)	
Applicant's or agent's file reference HCM/C84.01/Q	IMPORTANT NOTIFICATION
nternational application No.	International filing date (day/month/year)
PCT/GB00/00235	28 January 2000 (28.01.00)
ternational publication date (day/month/year)	Priority date (day/month/year)
Not yet published	02 February 1999 (02.02.99)

- QUEST INTERNATIONAL B.V. et al
- 1. The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- 2. This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
- 3. An asterisk(*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- 4. The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

Priority date	Priority application No.	Country or regional Office or PCT receiving Office	Date of receipt of priority document
02 Febr 1999 (02.02.99)	9902225.3	GB	16 Febr 2000 (16.02.00)
16 Marc 1999 (16.03.99)	9905868.7	GB	16 Febr 2000 (16.02.00)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Marc Salzman

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Facsimile No. (41-22) 740.14.35

Telephone No. (41-22) 338.83.38



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicants	or agent's file reference	T	On New York and Transmitted of International		
HCM/C84		FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
Internationa	application No.	International filing date (day/mont	h/year) Priority date (day/month/year)		
PCT/GB0	0/00235	28/01/2000	02/02/1999		
Internationa C11D3/5	Patent Classification (IPC) or na	ational classification and IPC			
Applicant					
QUEST I	NTERNATIONAL B.V. et a	ી.			
and is	transmitted to the applicant	nination report has been prepare according to Article 36. f 6 sheets, including this cover s	d by this International Preliminary Examining Authority		
⊠ Ti be (s	nis report is also accompanie en amended and are the ba	ed by ANNEXES, i.e. sheets of the sis for this report and/or sheets of the Administrative Instruct	ne description, claims and/or drawings which have containing rectifications made before this Authority		
ı	eport contains indications related Basis of the report	ating to the following items:			
)	☐ Priority	oninion with recard to novelty in	ventive step and industrial applicability		
'''	☐ Lack of unity of inventi		The stop and massing approximation,		
v	☒ Reasoned statement u		novelty, inventive step or industrial applicability;		
l vi	☐ Certain documents cit				
VII	☐ Certain defects in the i	nternational application			
VIII	☐ Certain observations o	n the international application			
Date of sub	nission of the demand	Date of	completion of this report		
09/08/200		21.05.2	001		
Name and mailing address of the international preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Authorized officer Renoth, H					
Tel. +49 89 2399 - 0 Tx: 523656 epmu d			Was the state of t		



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/00235

I.	Basi	s of	the	rep	ort
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1.	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:							
	1-20)	as originally filed					
	Cla	ims, No.:						
	1-13	3	as received on	07/03/20	01	with letter of	05/03/2001	
2.	Witl lang	n regard to the lang guage in which the	guage, all the elements international applicatior	marked above we n was filed, unless	re a oth	vailable or furnis erwise indicated	hed to this Authority under this item.	in the
	The	se elements were	available or furnished to	this Authority in the	he f	ollowing languag	e: , which is:	
		the language of a	translation furnished fo	r the purposes of t	he i	nternational sear	ch (under Rule 23.1	(b)).
		the language of p	ublication of the internation	tional application (und	er Rule 48.3(b)).		
		the language of a 55.2 and/or 55.3).	translation furnished fo	r the purposes of i	nter	national prelimin	ary examination (un	der Rule
3.	Witl inte	n regard to any nuo rnational prelimina	cleotide and/or amino ry examination was car	acid sequence di ried out on the bas	sclo sis o	sed in the interna f the sequence li	ational application, tl sting:	he
		contained in the ir	nternational application	in written form.				
			the international applic		reac	dable form.		
		-	uently to this Authority in					
•		furnished subsequ	uently to this Authority is	n computer readat	ole f	om.		
	☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.							
		The statement that listing has been fu	at the information recordumished.	ded in computer re	ada	ble form is idention	cal to the written sec	uence
4.	The	amendments have	e resulted in the cancell	ation of:				
		the description,	pages:					
		the claims,	Nos.:					
		the drawings;	sheets:					
* 5.		This report has be considered to go	een established as if (so beyond the disclosure a	ome of) the amend as filed (Rule 70.2(mei c)):	nts had not been	made, since they ha	ave been



International application No. PCT/GB00/00235

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims 1-13

Claims

No: Claims

Inventive step (IS)

Yes: No:

Claims 1-13

Yes:

Claims 1-13

- Industrial applicability (IA) Claims No:
- 2. Citations and explanations see separate sheet

VI. Certain documents cited

1. Certain published documents (Rule 70.10)

and / or

2. Non-written disclosures (Rule 70.9)

see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet







ITEM V

The following documents cited in the international search report are considered to be relevant with respect to the subject-matter of the present application;

D1: GB-A-1390503 (UNILEVER LTD)

D2: EP-A-0202819 (WARNER LAMBERT CO)

Novelty, Article 33(2) PCT

D1 discloses liquid detergent compositions comprising greater than 5% by weight of a surfactant and an encapsulate comprising an active material and an anionic gum. The active material is present in an amount of greater than 10% by weight or is a fragrance present in an amount of greater than 0.5% by weight. Furthermore, the anionic gum may be cross-linked and, preferably, forms a wall of polymer gel around the core material.

D1, however, does not disclose an encapsulate including active material in a hydrated cross-linked anionic gum matrix.

D2 relates to a delivery system consisting of encapsulates comprising a crosslinked alginate or carrageenate matrix entrapping an active component. D2, however, does neither disclose the use of such delivery systems in liquid detergent compositions comprising surfactants nor that the anionic gum matrix is hydrated.

Independent claims 1, 10 and 11 of the present application are, thus, new with respect to D1 and D2.

Dependent claims 2-9, 12 and 13 disclose preferred embodiments of the claims they refer to. These claims, thus, also meet the requirements of the PCT in respect of novelty.



Inventive step, Article 33(3) PCT

The present application and D1 address the same problem.

The object is to provide liquid detergent compositions comprising surfactants and an encapsulate containing an active material, which encapsulate is stable on storage yet dissolves on the composition, thereby releasing the active material.

D1 solves this problem by providing an liquid aqueous medium containing an appropriate quantity of electrolyte which stabilises the capsules in this medium before dilution. On dilution of the composition with water the change in ionic strength of the liquid environment of the capsules enables the active material in the capsules to dissolve.

The present application solves the problem by using an encapsulate which comprises a hydrated cross-linked anionic gum matrix. Such encapsulates are stable in water without the presence of salt and dissolve upon dilution due to the action of diluted surfactants.

This mechanism is different to that disclosed in D1 and, therefore, not derivable from this document.

Although D2 discloses cross-linked alginate or carrageenate matrix based encapsulates as delivery systems, there is no hint in D2 whether these encapsulates are compatible with e.g. surfactants, and, thus, could be incorporated in liquid detergent compositions.

Independent claims 1, 10 and 11 of the present application are, thus, involve an inventive step with respect to D1 and D2.

Claims 2-9, 13 and 14 are dependent on claim 1, 10 and 11 and as such also meet the requirements of the PCT with respect to inventive step.



INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/GB00/00235

ITEM VI

The following document is considered to become relevant in the regional examination proceedings:

Pupl. No.:

WO-A-99/24159

Applic. No.:

PCT/GB 98/03345

Priority date:

10.11.1997

Filing date:

10.11.1998

Puplic. date:

20.05.1999

ITEM VIII

The wording of the description and the amended claims is not consistent.

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CLAIMS

- A liquid detergent composition comprising at least 5% by weight of surfactant and an encapsulate
 comprising greater than 10% by weight of the encapsulate of active material, in a hydrated cross-linked anionic gum matrix.
 - 2. A detergent composition according to claim 1, wherein the surfactant is present at a concentration in the range from 5 to 50% by weight.
 - 3. A detergent composition according to claim 2, wherein the surfactant is present at a concentration in the range from 10 to 30% by weight.
- 4. A detergent composition according to any one of the preceding claims, wherein the surfactant is
 selected from the group consisting of anionic, nonionic, amphoteric and zwitterionic surfactants and mixtures thereof.
 - 5. A detergent composition according to any one of the preceding claims, wherein the the active material comprises a fragrance.
 - 6. A detergent composition according to any one of the preceding claims, wherein the active material is present in an amount up to 60%, preferably in the range from 20 to 40%, and particularly 25 to 30% by weight of the encapsulate.
- 7. A detergent composition according to any one of the preceding claims, wherein the anionic gum is present in an amount up to 5%, preferably up to 1% by weight of the encapsulate.
 - 8. A detergent composition according to any one of the preceding claims, wherein the anionic gum is alginate, carageenan, gellan gum, carboxymethyl cellulose and/or xanthan gum.
 - 9. A detergent composition according to claim 8, wherein the anionic gum is alginate.
 - 10. A liquid detergent composition comprising at least 5% by weight of surfactant and an encapsulate comprising greater than 0.5% by weight of the encapsulate of fragrance, in a hydrated cross-linked anionic gum matrix.



AMENDED SHEET





- 11. A laundry liquid comprising at least 5% by weight of surfactant and an encapsulate comprising active material in a hydrated cross-linked anionic gum matrix.
- 12. A laundry liquid according to claim 11, wherein the liquid comprises in the range from 5 to 50% by weight of anionic surfactant.
 - 13. A laundry liquid according to claims 11 or 12, wherein the liquid additionally comprises in the range from 5 to 80% by weight of builder.

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

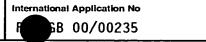
Applicant's or agent's file reference		of Transmittal of International Search Report			
HCM/C84.01/Q	ACTION (Form PCT/ISA/2	220) as well as, where applicable, item 5 below.			
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/GB 00/00235	28/01/2000	02/02/1999			
Applicant					
QUEST INTERNATIONAL B.V.	et al.				
This International Search Report has bee according to Article 18. A copy is being tra	en prepared by this International Searching Aut ansmitted to the International Bureau.	thority and is transmitted to the applicant			
This International Search Report consists It is also accompanied by	s of a total of sheets. y a copy of each prior art document cited in this	s report.			
Basis of the report					
	international search was carried out on the baless otherwise indicated under this item.	isis of the international application in the			
the international search w Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of	the international application furnished to this			
b. With regard to any nucleotide an was carried out on the basis of the		international application, the international search			
contained in the internation	onal application in written form.				
	filed together with the international application in computer readable form.				
furnished subsequently to this Authority in written form.					
furnished subsequently to this Authority in computer readble form.					
	bsequently furnished written sequence listing one state of the contract of the	does not go beyond the disclosure in the			
the statement that the info furnished	ormation recorded in computer readable form i	is identical to the written sequence listing has been			
2. Certain claims were fou	ind unsearchable (See Box I).				
3. Unity of Invention is lac	king (see Box II).				
4. With regard to the title,	•				
the text is approved as su	ubmitted by the applicant.				
	shed by this Authority to read as follows:	·			
	,				
5. With regard to the abstract,					
X the text is approved as su	ibmitted by the applicant.	•			
the text has been establis within one month from the	shed, according to Rule 38.2(b), by this Authori e date of mailing of this international search re	rity as it appears in Box III. The applicant may, port, submit comments to this Authority.			
6. The figure of the drawings to be publ	ished with the abstract is Figure No.	·			
as suggested by the appli	cant.	None of the figures.			
because the applicant fail	•				
because this figure better	characterizes the invention.				

INTERNATIONAL SEARCH REPORT International Application No GB 00/00235 A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C11D3/50 C11D3/22 C11D17/00 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) C11D A61K IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. CR 1 300 503 A (HNTI FVFR ITD) 1-14

	X	GB I 390 503 A (UNILEVER LID)	1-14
	V	16 April 1975 (1975-04-16)	
		cited in the application	
		claims	
		examples	
1		•	
		page 2, line 81 - line 88	
		page 3, line 6 - line 15	*
		/page 3, line 53 - line 79	
١		/ page 3, line 111 -page 4, line 4	
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-	$A \vee$	EP 0 202 819 A (WARNER LAMBERT CO)	1,5-12
1		26 November 1986 (1986-11-26)	
1		claims 1-7,11-22	
-		page 3, line 20 -page 4, line 14	
ı		page 10, line 29 - line 33	
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Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
24 May 2000	09/06/2000
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer
NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Neys, P

INTERNATIONAL SEARCH REPORT



C.(Continu	Intinuation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.			
P,A	WO 99 24159 A (QUEST INT.) 20 May 1999 (1999-05-20) cited in the application the whole document	1,5-12		
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PB 00/00235

mily Publication date

	atent document d in search repor	t	Publication date	Patent family member(s)		Publication date
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				CA	968248 A	27-05-1975
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				NO	912643 A	25-11-1986
				ZA	8602641 A	26-11-1986
WO	9924159	A	20-05-1999	AU	1042999 A	31-05-1999



REQUEST

For recogning Office use only
International Application No.
International Filing Date
Name of receiving Office and "PCT International Application"
Applicant's or agent's file reference

	International Filing Date				
The undersigned requests that the present	.				
international application be processed according to the Patent Cooperation Treaty.	Name of receiving Office and "PCT International Application"				
	Applicant's or agent's file reference				
	(if desired) (12 characters maximum) HCM/C84.01/Q				
Box No. I TITLE OF INVENTION					
Detergent Composition					
Box No. II APPLICANT					
Name and address: (Family name followed by given name: for a designation. The address must include postal code and name of cou address indicated in this Box is the applicant's State (that is, country of residence is indicated below.)	ntry. The country of the of residence if no State This person is also inventor.				
Quest International B.V.	Telephone No.				
Huizerstraatweg 28	Facsimile No.				
1411 GP Naarden The Netherlands					
The Netherlands	Teleprinter No.				
State (that is, country) of nationality:	State (that is, country) of residence:				
NL	NL				
This person is applicant for the purposes of: all designated x all designated the United States	States except attes of America only the States indicated in the Supplemental Box				
Box No. III FURTHER APPLICANT(S) AND/OR (FURTH	HER) INVENTOR(S)				
Name and address: (Family name followed by given name; for a l designation. The address must include postal code and name of cour address indicated in this Box is the applicant's State (that is, country,	egal entity, full official nry. The country of the of residence if no State This person is:				
of residence is indicated below.)	applicant only				
NESS, Jeremy Nicholas	applicant and inventor				
25 High Snoad Wood, Challock	inventor only (If this check-box				
Ashford, Kent TN25 4DQ, United Kingdom	is marked, do not fill in below.)				
State (that is, country) of nationality:	State (that is, country) of residence:				
GB	GB				
This person is applicant for the purposes of:	States except the United States the States indicated in the States of America only the Supplemental Box				
Further applicants and/or (further) inventors are indicated or	a continuation sheet.				
Box No. IV AGENT OR COMMON REPRESENTATIVE;	OR ADDRESS FOR CORRESPONDENCE				
The person identified below is hereby/has been appointed to act or of the applicant(s) before the competent International Authorities a					
Name and address: (Family name followed by given name: for a designation. The address must include postal cod	legal entity, full official Telephone No.				
	(01223) 355477				
Keith W Nash & Co	Facsimile No.				
90-92 Regent Street Cambridge	(01223) 324353				
CB2 1DP	Teleprinter No.				
United Kingdom	·				
Address for correspondence: Mark this check-box where no space above is used instead to indicate a special address to wi	agent or common representative is/has been appointed and the nich correspondence should be sent.				
Form PCT/RO/101 (first sheet) (July 1998; reprint January 2000)	See Notes to the request form				

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Sheet	Nο			<u>ڊ</u> .	

Continuation of Box No. III FUR ER APPLICANT(S) AND/OR (FURTHER) IN CONTOR(S)							
If none of the following sub-boxes is used, this sheet should not be included in the request.							
Name and address: (Family name followed by given name: for a designation. The address must include postal code and name of cour address indicated in this Box is the applicant's State (that is, country of residence is indicated below.)	legal entity, full official of						
GOODALL, Marcus James							
2 Meadow Cottages, Nackington Road	applicant and inventor						
Canterbury, Kent CT4 7AB, United Kingdom	inventor only (If this check-box is marked, do not fill in below.)						
State (that is, country) of nationality:	State (that is, country) of residence:						
GB	States except the United States the States indicated in						
This person is applicant all designated all designated the United States	states of America						
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	applicant and inventor						
	inventor only (If this check-bax						
	is marked, do not fill in below.)						
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This person is applicant all designated for the purposes of:	States except the United States the States indicated in the Supplemental Box						
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	applicant and inventor						
	inventor only (If this check-box						
	is marked, do not fill in below.)						
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	applicant and inventor						
	inventor only (If this check-box is marked, do not fill in below.)						
State (that is, country) of nationality: State (that is, country) of residence:							
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This person is applicant all designated all designated for the purposes of:	States except the United States the States indicated in the Soft America only the Supplemental Box						
Further applicants and/or (further) inventors are indicated on another continuation sheet.							

Box No.									
The following designations are hereby made under Rule 4.9(a) murk the applicable check-boxes; at least one must be marked): Regional Patent									
AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya. LS Lesotho, MW Malawi, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT									
	Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova. RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT								
₹ EP	European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent								
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	other State which is a member State of OAPI and a Contracting State of the PCI (if other kind of protection or treatment destreat specify on dotted line)								
	al Patent (if other kind of protection or treatment desired, spec	.īv. c	n aon	ea une):					
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⊠ AM	Armenia	Û	LT	Lithuania					
	Austria	ä		Luxembourg					
	Australia	-74		Latvia					
₩ A 7	Azerbaijan	ă		Morocco					
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	2			The former Yugoslav Republic of Macedonia					
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	Brazil	_							
_	Belarus			Mongolia					
_	Canada			Malawi					
	and LI Switzerland and Liechtenstein	X	MX	Mexico					
☑ CN	China	=	NO	Norway					
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	Germany	X	RO	Romania					
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	Gambia	K	TR	Turkey					
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Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)									
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Sheet No. ..4....

Box No. VI PRIORITY CLAIM		Further priority classes e indicated in the Supplemental Box.				
Filing date	Number	Where earlier application is:				
of earlier application (day/month/year)	of earlier application	national application: country	regional application:* regional Office	international application: receiving Office		
item (1) 02.02.1999 2nd February 1999	9902225.3	GB				
item (2)						
16.03.1999	0005969.7	GB		-		
16 March 1999 item (3)	9905868.7	UB.				
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* Where the earlier application is Convention for the Protection of In	an ARIPO application, it is m dustrial Property for which th	nandatory to indicate in the Su that earlier application was file	pplemental Box at least on d (Rule 4.10(b)(ii)). See Si	e country party to the Paris		
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ISA/						
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This international application co	e•	al application is accompan	ied by the item(s) marke	ed below:		
request : 4	I. 🔝 Iee calcu					
description (excluding		signed power of attorney general power of attorney;	reference number if any	٠.		
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's	or ag	ent's file reference	T	See Notification of Transmittal of International				
нсм/св	HCM/C84.01/Q		FOR FURTHER ACTION	Preliminary Examination Report (Form PCT/IPEA/416)				
Internation	al app	ication No.	International filing date (day/month	n/year) Priority date (day/month/year)				
PCT/GB	00/00)235	28/01/2000	02/02/1999				
Internation C11D3/5		ent Classification (IPC) or na	tional classification and IPC					
Applicant								
	INTE	RNATIONAL B.V. et al	l.					
		ational preliminary exami smitted to the applicant a	•	by this International Preliminary Examining Authority				
2. This	REPC	ORT consists of a total of	6 sheets, including this cover s	heet.				
t	een a	mended and are the bas	•	ne description, claims and/or drawings which have containing rectifications made before this Authority ons under the PCT).				
Thes	e ann	exes consist of a total of	2 sheets.					
3. This	report	contains indications rela	iting to the following items:					
1	×	Basis of the report						
II		Priority						
111		Non-establishment of o	pinion with regard to novelty, inv	ventive step and industrial applicability				
IV		Lack of unity of invention	on					
V	Ø	Reasoned statement ur citations and explanation	nder Article 35(2) with regard to ons suporting such statement	novelty, inventive step or industrial applicability;				
VI	\boxtimes	Certain documents cité						
VII		Certain defects in the in	nternational application					
VIII	×	Certain observations or	n the international application					
Date of sub	Date of submission of the demand Date of completion of this report							
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		g address of the internationa ining authority:	. Authoriz	red officer				
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International application No. PCT/GB00/00235

I.	Bas	is (of t	the	re	DOI	rt

1.	the and	the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:									
	1-2	0	as originally filed								
	Cla	ims, No.:									
	1-1	3	as received on	07/03/2001	with letter of	05/03/2001					
2.	lan	guage in which the i	uage, all the elements manternational application was vailable or furnished to the	as filed, unless oth	erwise indicated ur	nder this item.					
		☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).									
		•	blication of the internation	•		. , , , , , , , , , , , , , , , , , , ,					
					, ,,	y examination (under Rule					
3.		With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the nternational preliminary examination was carried out on the basis of the sequence listing:									
		contained in the int	ernational application in v	vritten form.							
		filed together with t	he international application	on in computer read	lable form.						
		furnished subseque	ently to this Authority in w	ritten form.							
		furnished subsequently to this Authority in computer readable form.									
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.									
		The statement that listing has been fur	the information recorded nished.	in computer readal	ble form is identica	I to the written sequence					
4.	The	amendments have	resulted in the cancellation	on of:							
		the description,	pages:								
		the claims,	Nos.:								
		the drawings,	sheets:								
5.			en established as if (some		nts had not been m	ade, since they have been					



International application No. PCT/GB00/00235

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims 1-13

No: Claims

Inventive step (IS)

Yes:

Yes:

Claims 1-13

No: Claims

Industrial applicability (IA)

Claims 1-13

No: Claims

- 2. Citations and explanations see separate sheet
- VI. Certain documents cited
- 1. Certain published documents (Rule 70.10)

and / or

2. Non-written disclosures (Rule 70.9)

see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

ITEM V

The following documents cited in the international search report are considered to be relevant with respect to the subject-matter of the present application;

D1: GB-A-1390503 (UNILEVER LTD)

D2: EP-A-0202819 (WARNER LAMBERT CO)

Novelty, Article 33(2) PCT

D1 discloses liquid detergent compositions comprising greater than 5% by weight of a surfactant and an encapsulate comprising an active material and an anionic gum. The active material is present in an amount of greater than 10% by weight or is a fragrance present in an amount of greater than 0.5% by weight. Furthermore, the anionic gum may be cross-linked and, preferably, forms a wall of polymer gel around the core material.

D1, however, does not disclose an encapsulate including active material in a hydrated cross-linked anionic gum matrix.

D2 relates to a delivery system consisting of encapsulates comprising a crosslinked alginate or carrageenate matrix entrapping an active component. D2, however, does neither disclose the use of such delivery systems in liquid detergent compositions comprising surfactants nor that the anionic gum matrix is hydrated.

Independent claims 1, 10 and 11 of the present application are, thus, new with respect to D1 and D2.

Dependent claims 2-9, 12 and 13 disclose preferred embodiments of the claims they refer to. These claims, thus, also meet the requirements of the PCT in respect of novelty.



EXAMINATION REPORT - SEPARATE SHEET

Inventive step, Article 33(3) PCT

The present application and D1 address the same problem.

The object is to provide liquid detergent compositions comprising surfactants and an encapsulate containing an active material, which encapsulate is stable on storage yet dissolves on the composition, thereby releasing the active material.

D1 solves this problem by providing an liquid aqueous medium containing an appropriate quantity of electrolyte which stabilises the capsules in this medium before dilution. On dilution of the composition with water the change in ionic strength of the liquid environment of the capsules enables the active material in the capsules to dissolve.

The present application solves the problem by using an encapsulate which comprises a hydrated cross-linked anionic gum matrix. Such encapsulates are stable in water without the presence of salt and dissolve upon dilution due to the action of diluted surfactants.

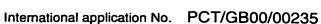
This mechanism is different to that disclosed in D1 and, therefore, not derivable from this document.

Although D2 discloses cross-linked alginate or carrageenate matrix based encapsulates as delivery systems, there is no hint in D2 whether these encapsulates are compatible with e.g. surfactants, and, thus, could be incorporated in liquid detergent compositions.

Independent claims 1, 10 and 11 of the present application are, thus, involve an inventive step with respect to D1 and D2.

Claims 2-9, 13 and 14 are dependent on claim 1, 10 and 11 and as such also meet the requirements of the PCT with respect to inventive step.

INTERNATIONAL PRELIMINARY



EXAMINATION REPORT - SEPARATE SHEET

ITEM VI

The following document is considered to become relevant in the regional examination proceedings:

Pupl. No.:

WO-A-99/24159

Applic. No.:

PCT/GB 98/03345

Priority date: 10.11.1997

Filing date: 10.11.1998

Puplic. date:

20.05.1999

ITEM VIII

The wording of the description and the amended claims is not consistent.

CLAIMS

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- A liquid detergent composition comprising greater than 5% by weight of surfactant and an
 encapsulate comprising greater than 10% by weight of the encapsulate of active material, and a cross-linked anionic gum.
 - 2. A detergent composition according to claim 1, wherein the surfactant is present at a concentration in the range from 5 to 50% by weight.
 - 3. A detergent composition according to claim 2, wherein the surfactant is present at a concentration in the range from 10 to 30% by weight.
- A detergent composition according to any one of the preceding claims, wherein the surfactant is
 selected from the group consisting of anionic, nonionic, amphoteric and zwitterionic surfactants and mixtures thereof.
 - 5. A detergent composition according to any one of the preceding claims, wherein the the active material comprises a fragrance.
 - 6. A detergent composition according to any one of the preceding claims, wherein the active material is present in an amount up to 60%, preferably in the range from 10 to 60%, more preferably 20 to 60%, and particularly 25 to 30% by weight of the encapsulate.
- 7. A detergent composition according to any one of the preceding claims, wherein the anionic gum is present in an amount up to 5%, preferably up to 1% by weight of the encapsulate.
 - 8. A detergent composition according to any one of the preceding claims, wherein the anionic gum is alginate, carageenan, gellan gum, carboxymethyl cellulose and/or xanthan gum.
 - 9. A detergent composition according to claim 8, wherein the anionic gum is alginate.
 - A detergent composition according to any one of the preceding claims, wherein the anionic gum is hydrated.

- 11. A liquid detergent composition comprising greater than 5% by weight of surfactant and an encapsulate comprising greater than 0.5% by weight of the encapsulate of fragrance, and an anionic gum.
- 5 12. A laundry liquid comprising greater than 5% by weight of surfactant and an encapsulate comprising active material and an anionic gum.
 - 13. A laundry liquid according to claim 12, wherein the liquid comprises in the range from 5 to 50% by weight of anionic surfactant.
 - 14. A laundry liquid according to claims 12 or 13, wherein the liquid additionally comprises in the range from 5 to 80% by weight of builder.